MODELS 714 & 717 CERAMIC MICROPHONES

SPECIFICATIONS

Generating Element:	Ceramic
Frequency Response:	100 – 7,000 Hz
Polar Pattern,	
Model 714:	Omnidirectional
Model 717:	Cardioid
Impedance:	High
Output Level:	−55 db (0 db = 1 volt/dyne/cm^2)
EIA Sensitivity Rating:	−155 db
Case Material:	Cycolac
Color:	Blue-gray
Dimensions:	3-5/8" h., 2-3/4" w., 1-7/16" deep
Net Weight:	8 oz., including cable
Switch:	DPDT (See Figure 2)
Cable:	10" retracted, three-conductor, one shielded, rubber-jacketed coiled cord
Mounting:	Hang-up button on microphone. Accessory hang-up bracket supplied.

DESCRIPTION AND APPLICATIONS

Recognizing the need for an entirely new approach to the design of microphones for communications, Electro-Voice engineers have developed the unique models 714 and 717. Both have been engineered to combine the three most sought-after features in communications microphones; high output and intelligibility, maximum reliability and unusual operational ease.

Both models feature smart, functional lines which make them an attractive addition to any communications equipment. Molded of "Cycolac," one of the toughest plastics available, the microphone housings provide complete protection to the generating elements. Long life and trouble-free operation are further assured through the use of an extremely reliable switch capable of more than a half million operations.

A unique property of the case material, in addition to its high impact resistance, is that it feels comfortable in the hand at virtually any temperature. A large size, non-slip push button is provided, assuring smooth, steady action with positive detent.

Should field service become necessary, the case may be opened by removing three screws. All internal parts are located in the case front with all wiring terminals readily accessible.

Particular attention has also been paid to communications effectiveness, specially shaped frequency response assures greatest possible articulation in addition to the high output level.

Model 714 and Model 717 are identical except for type of pickup pattern. Model 714 is an omnidirectional microphone best suited for use in areas of low or moderate ambient noise. The 717 is a cardioid microphone designed for close-talking use where severe background noise exists. It was developed to meet the need for a quality, high-output communications microphone providing maximum rejection of unwanted ambient noise. Close-talking cardioid characteristics are obtained by means of a specially designed generating element in a case with carefully engineered apertures on either side of the diaphragm. The rear opening provides effective attenuation of unwanted sounds arriving from the rear and sides of the microphone. Unwanted background noise is reduced by a factor of up to 67%. This makes possible effective communication in areas where, due to over-riding background noise, it would otherwise be impossible.

The availability of both the 714 and 717, with their

carefully chosen features and characteristics, makes possible selection of the ideal microphone for any amateur, CB or commercial radio communications, hand-held public address or paging installation.

WARRANTY

Each Electro-Voice microphone is guaranteed for its life to be free of factory defects in materials and workmanship and will be repaired or replaced, at our option, at no charge if exhibiting malfunction from this cause. Microphones for warranty repair must be shipped prepaid to Electro-Voice, Inc., Sevierville, Tennessee. They will be returned prepaid. This warranty does not cover finish or appearance.

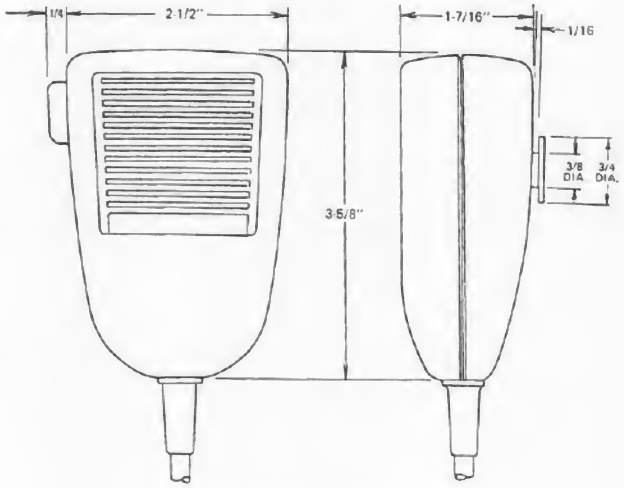

Figure 1 – Dimensions

WIRING

Figure 2 indicates wiring of the push-to-talk switch as supplied. Note that the microphone output appears across the red lead and shield: output is shorted in the "off" position of the switch. For connection to electronic switching systems, the white lead should be connected to the proper point in the transmitter circuit, usually a cathode lead. The black lead should be connected to the speaker circuit. The cable shield should be connected to the ground circuit of the associated equipment.

For conventional relay switch operation, the white lead and shield are employed. If relay operation is desired with no connection to the system ground, remove the white jumper lead between switch terminals 1 and 5. Move the black lead from terminal 4 to terminal 5. Depressing the switch will then make a connection between the white and black leads, and the entire circuit will remain above ground.

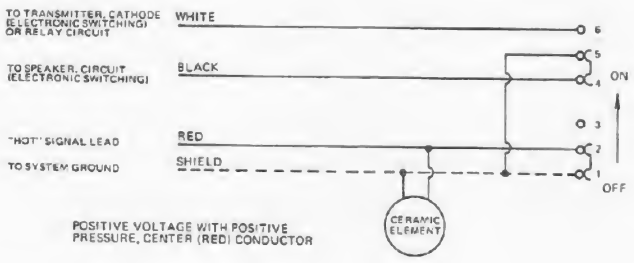

Figure 2 – Wiring Diagram